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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-18-11** **Date: 20-07-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-11 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	19-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	533	639	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	548	662	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	562	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-18-11** **Date: 21-07-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-11 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 70%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.42	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.1	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-18-11** **Date: 16-08-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-11 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	19-07-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-18-11** **Date: 21-07-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-11 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	377	377	2.5	97.5	90-100
3	20 mm	6758	7135	47.6	52.4	30-70
4	10 mm	4711	11846	79.0	21.0	10-35
5	4.75 mm	2618	14464	96.4	3.6	0-5
6	Pan	536	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-18-11** **Date: 21-07-18**

Sample ID No : 2018-07-18-11 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.46	–
6	Water Absorption(%)	0.31	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-18-11** **Date: 20-07-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-11 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	215	215	4.3	95.7	90-100
3	10 mm	3185	3400	68.0	32.0	25-55
4	4.75 mm	1444	4844	96.9	3.1	0-10
5	Pan	156	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-18-11** **Date: 20-07-18**

Sample ID No : 2018-07-18-11 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.39**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.31**	_
7	Aggregate crushing Value(%)	**24.8**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**24.3**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-18-11** **Date: 20-07-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Toilets in ward No.06, Thanisandra.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/67/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-18

Sample ID No : 2018-07-18-11 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 18-07-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	203	357	35.7	64.3	30-70	55-90	75-100	90-100
5	600 micron	231	588	58.8	41.2	15-34	35-59	60-79	80-100
6	300 micron	251	839	83.9	16.1	5-20	8-30	12-40	15-50
7	150 micron	125	964	96.4	3.6	0-10	0-10	0-10	0-15
8	Pan	36	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-18-11** **Date: 20-07-18**

Sample ID No : 2018-07-18-11 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.26	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-07-18-11** **Date: 22-07-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-11 /05
Sample Type/Size	:	Solid concrete blocks of size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	19-07-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	101	202	8161	16.350	2003.5	1991.5	Not less than 1800Kg/m^3
2	402	102	203	8324	16.490	1981.1		
3	401	103	201	8302	16.520	1989.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	17.320	16.520	4.84	4.80	Shall not be more than 10% by mass
2	17.460	16.610	5.12		
3	17.430	16.690	4.43		

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Lab ID : **CP-2018-07-18-11** **Date: 22-07-18**

Sample ID No : **2018-07-18-11 /05**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	102	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	102	201	
3	402	101	203	
4	401	102	201	
5	402	101	201	
6	401	102	203	
7	402	103	201	
8	403	102	200	
9	401	102	198	
10	402	103	203	
11	401	102	201	
12	402	101	203	
13	401	102	201	
14	402	103	202	
15	401	102	201	
16	402	103	203	
17	401	101	201	
18	403	102	203	
19	401	103	201	
20	402	102	203	
Average of 20	**402**	**102**	**202**	

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Lab ID : **CP-2018-07-18-11** **Date: 22-07-18**

Sample ID No : 2018-07-18-11 /05

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	102	41106	198.5	4.8	4.4
2	401	102	40902	177.5	4.3	
3	402	101	40602	186.5	4.6	
4	401	102	40902	189.4	4.6	
5	402	101	40602	163.2	4.0	
6	401	102	40902	173.5	4.2	
7	402	103	41406	166.4	4.0	
8	403	102	41106	172.5	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-07-18-11** **Date: 22-07-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-18
Sample ID No	:	2018-07-18-11 /06
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	19-07-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	32.180	1952.1	1963.7	Not less than 1800Kg/m^3
2	401	203	201	16362	32.250	1971.0		
3	402	201	203	16403	32.280	1968.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.820	32.480	4.13	4.08	Shall not be more than 10% by mass
2	33.750	32.340	4.36		
3	33.490	32.280	3.75		

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Lab ID : **CP-2018-07-18-11** **Date: 22-07-18**

Sample ID No : **2018-07-18-11 /06**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	201	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	203	203	
3	403	201	201	
4	401	203	203	
5	402	201	201	
6	402	203	203	
7	403	201	201	
8	401	203	202	
9	403	201	203	
10	400	203	201	
11	402	201	203	
12	401	203	201	
13	403	200	201	
14	401	201	203	
15	403	203	201	
16	402	201	203	
17	401	203	201	
18	402	201	203	
19	401	203	201	
20	403	201	203	
Average of 20	**402**	**202**	**202**	

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Lab ID : **CP-2018-07-18-11** **Date: 22-07-18**

Sample ID No : 2018-07-18-11 /06

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	201	80802	344.8	4.3	4.4
2	401	203	81403	372.1	4.6	
3	403	201	81003	349.5	4.3	
4	401	203	81403	368.5	4.5	
5	402	201	80802	376.9	4.7	
6	402	203	81606	346.1	4.2	
7	403	201	81003	359.1	4.4	
8	401	203	81403	350.7	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-25-14** **Date: 30/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Toilets in ward No.06, Thanisandra.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/67/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-14 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2018	30/07/2018	151.03 X 151.04 X 151.45	22812	8.201	262.3	11.5	11.6
2	PCC	M15	23/07/2018	30/07/2018	149.87 X 150.22 X 151.64	22513	8.169	267.9	11.9	
3	PCC	M15	23/07/2018	30/07/2018	150.63 X 150.74 X 150.99	22706	8.089	258.8	11.4	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-25-14** **Date: 20/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Toilets in ward No.06, Thanisandra.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/67/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-14 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2018	20/08/2018	150.11 X 149.65 X 150.24	22464	8.144	395.4	17.6	17.9
2	PCC	M15	23/07/2018	20/08/2018	151.26 X 149.78 X 150.63	22655	8.163	419.1	18.5	
3	PCC	M15	23/07/2018	20/08/2018	150.42 X 150.11 X 149.62	22580	8.196	397.4	17.6	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

AE ward no 6
ಸಿಬ್ಬಂದಿ ಸಂಖ್ಯೆ 19265
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-25-14** **Date: 30/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Toilets in ward No.06, Thanisandra.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/67/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-14 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2018	30/07/2018	149.66 X 151.42 X 150.42	22662	8.147	292.3	12.9	11.9
2	PCC	M15	23/07/2018	30/07/2018	150.66 X 150.24 X 150.85	22635	8.163	260.3	11.5	
3	PCC	M15	23/07/2018	30/07/2018	150.47 X 150.66 X 149.00	22670	8.155	253.9	11.2	

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-25-14** **Date: 20/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Toilets in ward No.06, Thanisandra.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/67/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-14 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2018	20/08/2018	149.66 X 151.24 X 150.74	22635	8.156	411.9	18.2	18.4
2	PCC	M15	23/07/2018	20/08/2018	150.66 X 150.47 X 150.23	22670	8.145	419.4	18.5	
3	PCC	M15	23/07/2018	20/08/2018	150.47 X 150.98 X 150.55	22718	8.192	422.6	18.6	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-25-14** **Date: 20/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Toilets in ward No.06, Thanisandra.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/67/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-14 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2018	20/08/2018	149.66 X 151.75 X 150.47	22711	8.177	420.2	18.5	18.2
2	PCC	M15	23/07/2018	20/08/2018	150.26 X 150.44 X 150.47	22605	8.165	397.9	17.6	
3	PCC	M15	23/07/2018	20/08/2018	150.63 X 150.75 X 149.63	22707	8.196	420.1	18.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-07-27-05** **Date: 30/07/2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Toilets in ward No.06, Thanisandra.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-18
Sample ID No	:	2018-07-27-05 /01
Customer ID	:	M25 Cube
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Cube	M25	23/07/2018	30/07/2018	149.05 X 151.42 X 151.36	22569	8.201	492.0	21.8	21.7
2	M25 Cube	M25	23/07/2018	30/07/2018	151.42 X 151.02 X 150.00	22867	8.176	505.4	22.1	
3	M25 Cube	M25	23/07/2018	30/07/2018	149.75 X 150.02 X 151.63	22465	8.193	478.5	21.3	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-27-05** **Date: 20/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Toilets in ward No.06, Thanisandra.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/67/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-18

Sample ID No : 2018-07-27-05 /02

Customer ID : M25 Cube

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Cube	M25	23/07/2018	20/08/2018	149.87 X 150.02 X 150.46	22483	8.112	627.3	27.9	27.5
2	M25 Cube	M25	23/07/2018	20/08/2018	150.56 X 150.21 X 150.28	22616	8.165	624.2	27.6	
3	M25 Cube	M25	23/07/2018	20/08/2018	151.46 X 150.63 X 150.23	22814	8.175	618.3	27.1	

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